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# Field Crop Abstracts

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Telex: 847964 (COMAGG G) Fax: (0491) 33508
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# Field Crop Abstracts

is a monthly journal prepared by the
CAB INTERNATIONAL BUREAU OF PASTURES
AND FIELD CROPS

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**Volume 41**

*Prepared by*

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Animal Breeding & Genetics
Animal Health
Dairy Science & Technology
Nutrition
Pastures & Field Crops
Crop Protection
Horticulture & Plantation Crops
Plant Breeding & Genetics
Soils
Forestry

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*CAB International Institute of Parasitology (CIP),* Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

*CAB International Institute of Biological Control (CIBC),* Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

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Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10000 serials and many other publications are scanned, and approximately 130000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

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The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

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**Veterinary Science and Parasitic Diseases**
*Animal Disease Occurrence; Helminthological Abstracts, Series A–Animal & Human Helminthology; Index Veterinarius; Protozoological Abstracts; Review of Applied Entomology, Series B–Medical & Veterinary; Review of Medical & Veterinary Mycology; Small Animal Abstracts; Veterinary Bulletin.*

**Crop Science and Production**
*Cotton & Tropical Fibres Abstracts; Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Lentil Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Tropical Oil Seeds Abstracts; Wheat, Barley & Triticale Abstracts.*

**Forestry**
*Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.*

**Crop Protection**
*Biocontrol News & Information; Helminthological Abstracts, Series B–Plant Nematology; Review of Applied Entomology, Series A–Agricultural; Review of Plant Pathology; Weed Abstracts.*

**Economics, Development and Sociology**
*Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; Rural Extension, Education & Training Abstracts; World Agricultural Economics & Rural Sociology Abstracts.*

**Machinery and Buildings**
*Agricultural Engineering Abstracts.*

**Human Nutrition**
*Nutrition Abstracts & Review, Series A–Human & Experimental.*

**Biotechnology/Biodeterioration**
*AgBiotech News & Information; Biodeterioration Abstracts.*

Also published is a new series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*.

Many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

### SDI Service

SDI (Selective Dissemination of Information) is a regular current awareness service based on the most recent input to the database. Subscribers decide their own search profile and receive search results at intervals of their own choice, either as computer printout or on floppy discs suitable for most microcomputers. Airmail ensures fast delivery.

### CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

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### Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

## OTHER PRODUCTS AND SERVICES

### Document Delivery Service

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### Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research, Index of Current Research on Pigs, Distribution Maps of Pests, Distribution Maps of Plant Diseases, Bibliography of Systematic Mycology, Descriptions of Pathogenic Fungi & Bacteria, Index of Fungi,* and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts.*

## C·A·B INTERNATIONAL BUREAU OF PASTURES AND FIELD CROPS

C·A·B International, Wallingford, Oxon OX10 8DE, UK Tel. Wallingford (0491) 32111

The Bureau of Pastures and Field Crops prepares records for two monthly main journals, *Field Crop Abstracts* and *Herbage Abstracts*. These journals cover world scientific literature on annual field crops, pastures, herbage crops and rangelands and provide a comprehensive guide to current scientific developments and a key to literature published in the past.

Scope of *Field Crop Abstracts:* The subjects covered include the agronomy and biology of all annual field crops grown for food, fodder, oil and fibre, and of tobacco. Land use, farming systems, agricultural meteorology and the control of weeds, pests and diseases are dealt with in so far as they concern the crop coverage.

The Bureau is prepared, on request, to undertake literature searches and to compile bibliographies on subjects within its scope.

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The address given at the end of abstract citations is that of the first author and normally denotes the address at which the work was carried out.

Transliteration of Cyrillic script is based on the International Standard ISO/R9 1968 (E).

## LANGUAGE SYMBOLS

The language symbols used are listed below. An initial capital letter denotes the main language of a paper, a small letter the language of the summary (ies).

| | | | | | |
|---|---|---|---|---|---|
| Af | Afrikaans | Fi | Finnish | Nl | Dutch/Flemish |
| Al | Albanian | Fr | French | No | Norwegian |
| Ar | Arabic | Gr | Greek | Pe | Persian |
| Az | Azerbaijan(i)/Azerbaidzhani/ Azerbaidzhanian | Hu | Hungarian | Pl | Polish |
| | | In | Indonesian | Pt | Portuguese |
| Be | Belorussian | Is | Icelandic | Ro | Romanian |
| Bg | Bulgarian | It | Italian | Ru | Russian |
| Ch | Chinese | Ja | Japanese | Sh | Serbo-Croat |
| Cs | Czech | La | Latin | Sk | Slovak |
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| De | German | Lv | Latvian | Sv | Swedish |
| Ee | Estonian | Ma | Macedonian | Ta | Tajik/Tadzhik |
| En | English | My | Malay/ Bahasamalaysia | Tr | Turkish |
| Es | Spanish | | | Uk | Ukrainian |

## ABBREVIATIONS

The abbreviations used for the names of common units, mathematical operations, chemical elements, etc., are in accordance with British Standard 1991 : 1967. Additional abbreviations used, follow the CAB Standard List of Abbreviations.
In addition, the following are used:

| | | | |
|---|---|---|---|
| *FCA* | *Field Crop Abstracts* | *HbA* | *Herbage Abstracts* |

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# LIST OF SERIALS ABSTRACTED

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Many other serials were scanned during 1988 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition.* The publication includes ISSNs and publishers' addresses. See a separate page of this Index for details.

Aardappelwereld
Abstracts on Cassava
Abstracts on Field Beans
ACIAR Technical Report Series, Australian Centre for International Agricultural Research
Acta Academiae Agriculturae ac Technicae Olstenensis, Agricultura
Acta Academiae Agriculturae ac Technicae Olstenensis, Technologia Alimentorum
Acta Agraria et Silvestria, Agraria
Acta Agriculturæ Scandinavica
Acta Agriculturae Universitatis Jilinensis
Acta Agriculturae Universitatis Pekinensis
Acta Agrobotanica
Acta Agronomica Hungarica
Acta Agronomica Sinica
Acta Agronómica, Universidad Nacional de Colombia
Acta Biochemica et Biophysica Sinica
Acta Botanica Hungarica
Acta Botanica Indica
Acta Botanica Neerlandica
Acta Botanica Sinica
Acta Ecologica Sinica
Acta Facultatis Rerum Naturalium Universitatis Comenianae, Physiologia Plantarum
Acta Fytotechnica
Acta Genetica Sinica
Acta Horticulturae
Acta Oecologica, Oecologia Plantarum
Acta Physiologiae Plantarum
Acta Phytopathologica et Entomologica Hungarica
Acta Phytophylactica Sinica
Acta Phytophysiologica Sinica
Acta Scientiarum Naturalium Universitatis Sunyatseni
Acta Societatis Botanicorum Poloniae
Acta Universitatis Agriculturae Brno, A (Facultas Agronomica)
Advances in Agronomy
Advances in Horticultural Science
Advances in Plant Sciences
Agrarwirtschaft
Agricell Report
Agricultura Técnica
Agricultura Técnica en México
Agricultura Tropica et Subtropica
Agricultural and Biological Chemistry
Agricultural and Forest Meteorology
Agricultural Economic Report, Economic Research Service, US Department of Agriculture
Agricultural Engineer
Agricultural Engineering Series
Agricultural Engineering, Australia
Agricultural Mechanization in Asia, Africa and Latin America
Agricultural Research Journal of Kerala
Agricultural Research Review
Agricultural Research, Seoul National University
Agricultural Reviews
Agricultural Science Digest, India
Agricultural Systems
Agricultural University Wageningen Papers
Agricultural Water Management
Agriculture Handbook, US Department of Agriculture
Agriculture International
Agriculture, Ecosystems and Environment
Agrivita
Agro Sur
Agroborealis
Agrochémia
Agrochimica
Agroforestry Systems
Agrohemija
Agrokémia és Talajtan
Agrokhimiya
Agronomía Costarricense
Agronomía Tropical
Agronômico
Agronomie
Agronomie Tropicale
Agronomy Journal
Agrotecnia de Cuba
AICOSCA Newsletter
Alafua Agricultural Bulletin
Alexandria Journal of Agricultural Research
American Journal of Alternative Agriculture
American Journal of Botany
American Potato Bulletin
American Potato Journal
Anais da Escola Superior de Agricultura 'Luiz de Queiroz', Universidad de São Paulo
Analele Institutului de Cercetări pentru Cereale şi Plante Tehnice, Fundulea
Anales de Biología, Biología General
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Applied and Environmental Microbiology
Applied Engineering in Agriculture
Applied Geography
Arab Gulf Journal of Scientific Research, B (Agricultural and Biological Sciences)
Arable Farming
Archiv für Acker- und Pflanzenbau und Bodenkunde
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Assiut Journal of Agricultural Sciences
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Biblioteczka Wiadomośći IMUZ
Biochemical and Biophysical Research Communications
Biochemical Journal
Biochemical Society Transactions
Biochemical Systematics and Ecology
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Biochemistry
Biochemistry and Cell Biology
Biochemistry of Plants
Biochimica et Biophysica Acta, B (Bioenergetics)
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Boletim da Sociedade Broteriana
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Boletim Técnico, Empresa de Pesquisa Agropecuária do Estado de Rio de Janeiro, EMBRAPA
Boletim Técnico, Organização das Cooperativas do Estado do Paraná
Boletín Bibliográfico, INTA, Argentina
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Boletín INICA, Instituto Nacional de Investigaciones de la Caña de Azúcar, Cuba
Botanical Bulletin of Academia Sinica, Taiwan
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Ciencia y Técnica en la Agricultura, Tabaco
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CIP Circular
CMU Journal of Agriculture, Food and Nutrition
Collection Documents Systèmes Agraires, Département Systèmes Agraires du CIRAD, Centre de Coopération Internationale en Recherche Agronomique pour le Développement, Montpellier
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Contributions, Central Research Institute for Food Crops, Bogor
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Crop Protection
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Current Agriculture
Current Research Reporter, Mahatma Phule Agricultural University
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Darwiniana
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Deutsche Tierärztliche Wochenschrift
Dirasat
Dissertation Abstracts International, A (Humanities and Social Sciences)
Dissertation Abstracts International, B (Sciences and Engineering)
Divisional Note, AFRC Institute of Engineering Research
Divisional Report, Division of Soils, CSIRO, Australia
DLG-Mitteilungen
Documentos, Empresa Capixaba de Pesquisa Agropecuária, EMCAPA, Brazil
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Documentos, Empresa de Pesquisa Agropecuária do Estado de Mato Grosso, Brazil
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Doğa Türk Botanik Dergisi
Doğa, Türk Tarım ve Ormancılık Dergisi
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Doklady Akademii Nauk BSSR
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Doklady Biochemistry
Doklady Bolgarskoĭ Akademii Nauk
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Doklady VASKhNIL
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Down to Earth
DSIR Bulletin, Department of Scientific and Industrial Research, New Zealand
East African Agricultural and Forestry Journal
Ecological Modelling
Ecology, USA
Economic Botany
Economic Report, Department of Agricultural and Applied Economics, University of Minnesota
Eesti NSV Teaduste Akadeemia Toimetised, Bioloogia
Ege Üniversitesi Ziraat Fakültesi Dergisi
Egyptian Agricultural Bibliography
Egyptian Journal of Botany
Environment and Ecology
Environmental and Experimental Botany
Environmental Entomology
Environmental Geochemistry and Health
Environmental Monitoring and Assessment
Environmental Pollution
Environmental Research
Environmental Toxicology and Chemistry
Euphytica
European Journal of Biochemistry
Eurosoya
Experientia
Experimental Agriculture
Extension Bulletin, Cooperative Extension, College of Agriculture, Washington State University
FABIS Newsletter, Faba Bean Information Service, ICARDA
Fagopyrum
FAO Plant Production and Protection Paper
FAO Plant Production and Protection Series
FAO Plant Protection Bulletin
Far Eastern Agriculture
Farm Building Progress
Farm Science Journal
Farming Mechanization, Japan
Farming Systems Research Paper Series, Kansas State University
Fascículos Bibliográficos del CIAT
FEBS Letters
Fertiliser News
Fertilizer Focus
Fertilizer Research
Fertilizers and Agriculture
Fett Wissenschaft Technologie
Field Crops Research
Fiji Agricultural Journal
Fitopatología
Fitopatologia Brasileira
Fitoterapia
Fiziologiya i Biokhimiya Kul'turnykh Rastenii
Fiziologiya na Rasteniyata
Fiziologiya Rastenii
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Food Chemistry
Forskning og Forsøk i Landbruket
Forum Pascasarjana
Fresenius' Zeitschrift für Analytische Chemie
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Fujian Agricultural Science and Technology
Fungicide and Nematicide Tests
Genetic Manipulation in Crops Newsletter
Genetica Agraria
Genetica Polonica
Genio Rurale
Geoderma
Geographer
Geographical Review of Japan, B
Geōrgikē Ereuna
Gesunde Pflanzen
Giessner Beiträge zur Entwicklungsforschung
Gigiena i Sanitariya
Giornale Botanico Italiano
Glasnik Instituta za Botaniku i Botaničke Bašte Univerziteta u Beogradu
Godišen Zbornik na Zemjodelskiot Fakultet na Univerzitetot vo Skopje
Godishnik Sofiiskiya Universitet 'Kliment Okhridski' Biologicheski Fakultet, 2 (Botanika)
Grøn Viden, Landbrug
Guangdong Agricultural Science
Gujarat Agricultural University Research Journal
Gunma Journal of Agricultural Research, A (General)
Haryana Agricultural University Journal of Research
Haryana Journal of Agronomy
Hassadeh
Herba Hungarica
Himachal Journal of Agricultural Research
Hojas de Frijol
Hojas Divulgadoras, Ministerio de Agricultura, Pesca y Alimentación, Spain
Holzzucht
Horticultural Reviews
HortScience
Human Nutrition: Food Sciences and Nutrition
IITA Research Briefs, International Institute of Tropical Agriculture
ILCA Bulletin, International Livestock Centre for Africa
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Indian Journal of Agricultural Chemistry
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Indian Journal of Agricultural Sciences
Indian Journal of Agronomy
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Indian Journal of Experimental Biology
Indian Journal of Forestry
Indian Journal of Genetics & Plant Breeding
Indian Journal of Hill Farming
Indian Journal of Horticulture
Indian Journal of Mycology and Plant Pathology
Indian Journal of Nematology
Indian Journal of Nutrition and Dietetics
Indian Journal of Plant Pathology
Indian Journal of Plant Physiology
Indian Journal of Plant Protection
Indian Journal of Weed Science
Indian Phytopathology
Indian Pulp and Paper
Indian Review of Life Sciences
Indonesian Journal of Crop Science
Industria Saccarifera Italiana
Informações Agronômicas, Potafos
Informações Econômicas
Informatore Agrario
Informatsionnyi Byulleten' po Kukuruze
Informe Agropecuário
Informe de Investigación, División de Ciencias Agropecuarias y Maritimas, Instituto Técnologico y de Estudios Superiores de Monterrey
Informe Técnico, Estación Experimental Regional Agropecuaria Pergamino, Argentina
Insect Science and its Application
Interdisciplinary Science Reviews
International Chickpea Newsletter
International Journal of Biometeorology
International Journal of Environmental Analytical Chemistry
International Journal of Radiation Biology
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International Pigeonpea Newsletter
International Rice Commission Newsletter
International Rice Research Newsletter
Internationale Zeitschrift der Landwirtschaft
Investigación Agraria, Producción y Protección Vegetales
Investigaciones Agronómicas, Centro de Investigaciones Agrícolas 'Alberto Boerger', Uruguay
Iran Agricultural Research
Iranian Journal of Agricultural Sciences
Iraqi Journal of Agricultural Sciences, 'ZANCO'
IRRI Research Paper Series
Irrigazione e Drenaggio
Israel Journal of Botany
ITEA (Información Técnica Económica Agraria)
Itogi Nauki i Tekhniki VINITI, Biofizika
Izvestiya Akademii Nauk Azerbaidzhanskoi SSR, Biologicheskikh Nauk
Izvestiya Akademii Nauk Gruzinskoi SSR, Biologicheskaya
Izvestiya Akademii Nauk Kazakhskoi SSR, Biologicheskaya
Izvestiya Akademii Nauk Latvilskoi SSR
Izvestiya Akademii Nauk Moldavskoi SSR, Biologicheskikh i Khimicheskikh Nauk
Izvestiya Akademii Nauk SSSR, Biologicheskaya
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Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii
J. Tob. Sci. Technol.
Jaarboekje, Stichting Nederlands Instituut voor Brouwgerst, Mout en Bier
Japanese Journal of Breeding
Japanese Journal of Crop Science
Japanese Journal of Genetics
Japanese Journal of Nutrition
Japanese Journal of Soil Science and Plant Nutrition
Japanese Journal of Tropical Agriculture
JARQ (Japan Agricultural Research Quarterly)
Journal of Agricultural and Food Chemistry

Journal of Agricultural Engineering Research
Journal of Agricultural Research of China
Journal of Agricultural Science in Finland
Journal of Agricultural Science, Tokyo Nogyo Daigaku
Journal of Agricultural Science, UK
Journal of Agricultural Sciences, Jiangsu Academy of Agricultural Sciences
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Journal of Root Crops
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Journal of Seed Technology
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Journal of the American Oil Chemists' Society
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Journal of the National Science Council of Sri Lanka
Journal of the Oil Technologists' Association of India
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Journal of the University of Kuwait, Science
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Kartofel' i Ovoshchi
Kartofelevodstvo
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Kartoffelforschung Aktuell
Kartoplyarstvo
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Kertészet és Szőlészet
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Khimiya v Sel'skom Khozyaĭstve
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KTBL-Arbeitsblatt, Kuratorium für Technik und Bauwesen in der Landwirtschaft, e.V., German Federal Republic
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Lavoura Arrozeira
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Legon Agricultural Research Bulletin
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Len i Konoplya
Lens Newsletter
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Louisiana Agriculture
Lucrări Ştiinţifice Institutul Agronomic Timişoara, Agronomie
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Madras Agricultural Journal
Maize Genetics Cooperation Newsletter
Maslichnye Kul'tury
Maszyny i Ciągniki Rolnicze
Maydica
Mechanizace Zemědělství
Meddelande, Jordbrukstekniska Institutet, Sweden
Meddelelse, Statens Planteavlsforsøg
Mededeling, Instituut voor Rationele Suikerproductie, Netherlands
Mededeling, Provinciaal Onderzoek- en Voorlichtingscentrum voor Land- en Tuinbouw Beitem-Roeselare, Belgium
Mededelingen Vakgroep Landbouwplantenteelt en Graslandkunde, Landbouwhogeschool, Wageningen
Mededelingen van de Koninklijke Academie voor Wetenschappen, Letteren en Schone Kunsten van België
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Meldinger fra Norges Landbrukshøgskole
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Meststoffen
Meteorological Monthly
Metodiky pro Zavádění Výsledků Výzkumu do Zemědělské Praxe
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Miscellaneous Paper, US Army Corps of Engineers
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Molecular and General Genetics
Molekul. Genet. i Biofiz (Kiev)
Monograph, British Plant Growth Regulator Group
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Narendra Deva Journal of Agricultural Research
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Newsletter, Tissue Culture for Crops Project, Colorado State University
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Notes from the Royal Botanic Garden, Edinburgh
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Occasional Publication, Australian Institute of Agricultural Science
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Paper Series, Farming Systems Research, Kansas State University
Paper, American Society of Agricultural Engineers
PE&RS (Photogrammetric Engineering & Remote Sensing)
Peanut Science
Pemberitaan, Penelitian Tanah dan Pupuk, Indonesia
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Pesticide Usage Survey Report, ADAS, UK
Pesticides
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Philippine Journal of Crop Science
Photosynthesis Research
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Physiologia Plantarum
Physiological and Molecular Plant Pathology
Physiologie Végétale
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PKV Research Journal
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Plant Cell Reports
Plant Cell, Tissue and Organ Culture
Plant Disease
Plant Foods for Human Nutrition
Plant Genetic Resources Newsletter
Plant Growth Regulation
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Plant Molecular Biology
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Plant Protection
Plant Protection Quarterly
Plant Research and Development
Plant Science, Irish Republic
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Plant Variety Protection Office, Official Journal
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Planta
Planta Medica
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Proceedings of the Indian National Science Academy, B (Biological Sciences)
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Proceedings of the National Science Council, B (Life Sciences), Taiwan
Proceedings of the South Dakota Academy of Science
Proceedings, Agronomy Society of New Zealand
Proceedings, American Peanut Research and Education Society
Proceedings, Fertiliser Society, UK
Producţia Vegetală, Cereale şi Plante Tehnice
Producţia Vegetală, Horticultură
Progressive Horticulture
Protoplasma
Publicación Técnica, Estacion Experimental Agropecuaria Pergamino, Argentina.
Publicación Técnica, Instituto Nacional de Tecnología Agropecuaria, Estación Experimental Agropecuaria Anguil
Publication, Atlantic Corn Hybrid Evaluation Committee, Canada
Publication, Central Highlands Rural Development Project, Risabah, Yemen Arab Republic
Publication, Dhamar Agricultural Improvement Centre
Publication, Weed Survey Series, Agriculture Canada
Publikatie, Instituut voor Bewaring en Verwerking van Landbouwprodukten, Wageningen
Queensland Journal of Agricultural and Animal Sciences
Rachis, Barley and Wheat Newsletter
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Rapport, Instituut voor Bodemvruchtbaarheid, Netherlands
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Report from the Danish Seed Testing Station
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Reporte de Investigación del Instituto de Investigaciones Fundamentales en Agricultura Tropical
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## C:A:B INTERNATIONAL INFORMATION SERVICES

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For further information, contact:

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Telex: 847964 (COMAGG G)
Telefax: (0491) 33508
*or*
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Tucson, Arizona 85719, USA
Tel: 800/528-4841 (Toll-free) or 602/621-7897
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Wallingford, Oxon OX10 8DE, UK
Telephone: (0491) 32111 Telecom Gold/ Dialcom: 84: CAU001
Telex: 847964 (COMAGG G) Fax: (0491) 33508

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*CAB International Mycological Institute (CMI),* Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

*CAB International Institute of Parasitology (CIP),* Director Dr R. Muller, located at Winches Farm, St. Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

*CAB International Institute of Biological Control (CIBC),* Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

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